BILL NO. S-85-03-38

SPECIAL ORDINANCE NO. S-50-85

AN ORDINANCE approving City Utilities Purchase Order #A-44020 by the City of Fort Wayne by and through its Department of Purchasing and Tomco Equipment Co. for the Filtration Plant.

NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT WAYNE, INDIANA:

SECTION 1. That City Utilities Purchase Order #A-44020, between the City of Fort Wayne, by and through its City Utilities, and the Department of Purchasing and Tomco Equipment Co., respectfully for:

awarding of a bid with respect to the purchase of a Liquid Carbon Dioxide System for the Filtration Plant;

involving a total cost of Thirty-Five Thousand One Hundred and No/100 Dollars ($35,100.00), all as more particularly set forth in said Purchase Order, which is on file in the Office of the Department of Purchasing, and is by reference incorporated herein, made a part hereof, and is hereby in all things ratified, confirmed and approved.

SECTION 2. That this Ordinance shall be in full force and effect from and after its passage and any and all necessary approval by the Mayor.

Councilmember

APPROVED AS TO FORM
AND LEGALITY

Bruce O. Boxberger, City Attorney

Read the first time in full and on motion by Eisbart, seconded by Talarico, and duly adopted, read the second time by title and referred to the Committee Finance (and the City Plan Commission for recommendation) and ~~Public Hearing to be held~~ after due legal notice, at the Council Chambers, City-County Building, Fort Wayne, Indiana, on _____, the _____ day of _____, 19____, at _____ o'clock _____.M.,E.S.T.

DATE: 3-26-85

Sandra E. Kennedy
SANDRA E. KENNEDY, CITY CLERK

Read the third time in full and on motion by Eisbart, seconded by Henry, and duly adopted, placed on its passage. PASSED (~~LOST~~) by the following vote:

	AYES	NAYS	ABSTAINED	ABSENT	TO-WIT:
TOTAL VOTES	9				
BRADBURY	✓				
BURNS	✓				
EISBART	✓				
GiaQUINTA	✓				
HENRY	✓				
REDD	✓				
SCHMIDT	✓				
STIER	✓				
TALARICO	✓				

DATE: 4-9-85

Nadyda Eckhoff
~~SANDRA E. KENNEDY, CITY CLERK~~
Chief Deputy

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as (~~ANNEXATION~~) (APPROPRIATION) (GENERAL) (SPECIAL) (~~ZONING~~ MAP) ORDINANCE (~~RESOLUTION~~) NO. S-50-85

on the 9th day of April, 19 85,

ATTEST: (SEAL)

Nadyda Eckhoff
~~SANDRA E. KENNEDY, CITY CLERK~~
Chief Deputy

Mark E. Gia Quinta
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 10th day of April, 19 85, at the hour of 11:00 o'clock A.M.,E.S.T.

Nadyda Eckhoff
~~SANDRA E. KENNEDY, CITY CLERK~~
Chief Deputy

Approved and signed by me this 10 day of April, 19 85, at the hour of 3 o'clock P.M.,E.S.T.

WIN MOSES, JR., MAYOR

TOMCO$_2$ EQUIPMENT COMPANY
SYSTEMS

3340 Rosebud Rd., Loganville, Georgia 30249 Telephone (404) 979-8000 Telex 80-4227

February 14, 1985

Mr. Denver Howard
Superintendent
Three Rivers Filtration Plant
One Main Street
Fort Wayne, IN 46802

Subject: Tomco Liquid Carbon Dioxide System
Plant #1
Tomco Revised Proposal #1369-A

Dear Mr. Howard:

This is in response to our discussion on February 13, 1985 regarding the proposed carbon dioxide feed system for Plant #1.

As per our discussion, I have revised our enclosed specifications to reflect the addition of one Tomco vapor heater, two gas meters similar to the ones you are presently using, two pressure switches and two electronically operated control valves.

We did decide to leave the first stage Fisher regulator in the system since it appears that all of the existing panels contain two regulators and that the CO_2 gas to this proposed panel will be at tank pressure. We also prefer to install the orifice flange between the two regulators so that the inlet pressure will be at constant pressure. The cost of the regulator is minimal and does not affect the overall price to a great extent.

The electronic valve in combination with a manual loading station will be capable of being operated manually from the panel or automatically when provided a 4-20 MAdc signal from an existing pH controller.

The control panel as described in the enclosed specifications is designed to provide the same functions and results as your existing control system in Plants #2 and 3.

We would propose to furnish the equipment as described in the attached specifications for Thirty Five Thousand One Hundred Dollars ($35,100.00) F.O.B. Loganville, Georgia with full freight allowed to the Fort Wayne water plant. This price can be considered firm for 90 days from February 14, 1985.

The price also includes the service of our field engineer to check the completed installation, assist in the initial start-up and train the operating personnel in the use of the equipment.

Detailed drawings and operating manuals are also included in the above price.

Delivery of the equipment will be 8 to 10 weeks after receipt of submittal approval and your release for production. We would have the submittals ready for your approval two weeks after receipt of your order.

Mr. Howard, we appreciate this opportunity to quote on your CO_2 equipment needs. Please do not hesitate to contact us if you should need additional information regarding this matter.

Very truly yours,

TOMCO EQUIPMENT COMPANY

Ray Sartor
Manager - Recarbonation Department

RS:bp

Enclosures

TOMCO EQUIPMENT COMPANY
SYSTEMS

3340 Rosebud Rd., Loganville, Georgia 30249 Telephone (404) 979-8000 Telex 80-4227

SPECIFICATIONS FOR TOMCO
CARBON DIOXIDE FEED CONTROL SYSTEM
FORT WAYNE, INDIANA W.T.P.

January 14, 1985
Proposal #1369A-Rev

General

The following are descriptions of the items of equipment to be furnished which comprise one Tomco CO2 feed control and diffuser system. The equipment specified shall be used in conjunction with the existing CO2 storage and feed system.

CO2 will be piped from existing supply lines to the panel. The CO2 vapor is heated to near room temperature and then reduced in pressure to approximately 100 psig. The CO2 flow is then measured through an orifice plate and differential pressure transmitter. The 4-20 MAdc signal proportional to flow is transmitted to the main control panel for remote readout. This signal is also integrated and used to drive a totalizing meter for total CO2 flow measurement.

The CO2 pressure is once again reduced to approximately 40 psig. The flow rate to the diffuser assembly is controlled with an electronic actuated valve. This valve will be capable of being operated either locally from the CO2 panel or remotely from the main control panel.

Panel Mounted CO2 Gas Run Assembly

One (1) Tomco factory assembled CO2 gas run assembly. The assembly will consist of the below items all mounted, prepiped, prewired and factory painted.

Two (2) Tomco Model CVH-4 electric vapor heaters to heat the 0 degrees Fahrenheit CO2 gas to near room temperature will be provided. The vapor heater will be for operation on 480 volts, single phase, 60 cycle power. The vapor heater will be capable of heating 720 #/hr. of CO2 vapor. The vapor heater is supplied complete with a temperature controller utilizing a copper capillary sensing element. An overheat device is supplied to shut off the heating element should the temperature reach 200 degrees F. The vapor heaters shall be installed, prepiped and prewired on the panel.

Two (2) CO2 "On-Off" Solenoid Valves. Threaded size 1/2", 120 volts, single phase, 60 cycle solenoid valves will be provided and mounted in the CO2 gas piping downstream of the vapor heater. The valves shall have a forged brass body, TFC seat, stainless steel stem and plunger assembly, and integral junction box. Valves capable of a safe working pressure of 500 psig.

One (1) Fisher first stage CO2 pressure regulator will be provided for reducing the pressure of the CO2 vapor prior to leaving the storage tank. The regulator will have a malleable iron body, aluminum spring case and lower case, nitrile diaphragm, chrome plated brass valve stem and brass valve stem guide. The outlet pressure of the regulator will be easily adjusted through the use of an adjustment screw. One (1) pressure gauge 2 1/2" dial, 0-300 psi range, complete with isolation valve will be provided for indication of the CO2 pressure downstream of the regulator.

Two (2) Pressure switches with isolation valves and necessary fittings will be provided to sound an alarm and stop the CO2 flow to the diffusion assemblies in case of high CO2 gas pressure.

Two (2) CO2 Indicating Flow Transmitters. Indicating CO2 flow transmitters will be provided for indication of the CO2 flow to each application point. The flow transmitter will accept a differential pressure input from an orifice plate and transmit a 4 to 20 M.A. output to a remote located CO2 flow indicator.

Two (2) Fisher second stage CO2 pressure regulators will be provided for reducing the pressure of the CO2 vapor to approximately 30 psig. The regulators will have a malleable iron body, aluminum spring case and lower case, nitrile and aluminum valve disc and holder, nylon fabric coated with nitrile diaphragm, chrome plated brass valve stem and brass valve stem guide. The outlet pressure of the regulator will be easily adjusted through the use of an adjustment screw. One (1) pressure gauge, 2 1/2" dial, 0-60 psi range, complete with isolation valve will be provided for indication of the CO2 pressure downstream of the regulator.

Two (2) CO2 Control Valves. Electronic operated CO2 flow control valves will be provided for control of the CO2 flow to the recarbonation basins. The valves will be of steel construction with stainless steel trim.

Two (2) Electronic Auto/Manual Loading Stations will be

provided. These will be used to manually operate the electronic control valve when in the manual position. The valve will operate automatically by signal by others when in AUTO position.

Two (2) Bypass Line with Metering Valve & Ball Valves. Bypass lines, each complete with a manual operated metering type CO2 control valve will be provided to circumvent the electronic operated CO2 control valves. The necessary ball valves to isolate the CO2 control valves will be provided.

Two (2) Pressure Relief Valves. Pressure relief valves (one per system) will be located in the CO2 gas piping to insure that equipment is not overpressured.

One (1) Control Panel. Tomco control panel will be provided. The panel will be fabricated of aluminum and stainless steel, complete with all the necessary items for operation of the recarbonation system.

Two (2) CO2 Totalizing Meters. Carbon dioxide gas totalizing meters, each meter to be a diaphragm type with an aluminum case. The meter to be complete with direct reading index graduated in cubic feet of CO2.

Diffuser Assemblies

Two (2) Tomco CO2 vapor diffusion assemblies for installation near the bottom of the primary and secondary recarbonation basins. The diffusers are constructed of porous aluminum oxide and come with diffuser support and CO2 feed pipe. The number and arrangement of diffusers to be determined by the system supplier.

Detailed installation drawings, installation instructions, parts lists and operating manuals will be provided. Three (3) copies of an operating manual will be furnished. A service engineer will be provided to check the completed installation, advise and assist during the initial operating period in getting the equipment into operation and in instructing the personnel in the care and operation of the equipment. We will provide one (1) man for one trip not to exceed three (3) days to check out the system and place it in operation. Should you require more time from our man, we shall be compensated at the rate of $400.00 per elapsed day of 24 hours and for his expenses.

Our quotation does NOT include:

A. Foundation or anchor bolts.

B. Hoists or other means of lifting the diffusers into or out of the recarbonation basins.

C. Electrical wiring, conduit, etc. to all equipment furnished by us.

D. Baffle walls, if required, to obtain the correct flow pattern of water past the CO2 application points.

E. CO2 piping to the control panel and from the control panel to the diffuser assemblies.

F. 4-20 MAdc wiring between main control panel and CO2 panel.

G. Flow meters and controllers on main control panel.

UNISET | Reynolds+Reynolds - Dayton, Ohio | UNISET

FORM FWPO-1
APPROVED BY THE
STATE BOARD OF
ACCOUNTS FOR
CITY UTILITIES AND
CIVIL CITY OF
FORT WAYNE 1980

City of Fort Wayne

DEPARTMENT OF PURCHASES
NUMBER ONE EAST MAIN STREET, ROOM 940
FORT WAYNE, IN 46802

PURCHASE ORDER NUMBER
A- 44020

DATE 03/20/85
REQ. NO. 00050

THE ABOVE INFORMATION MUST APPEAR ON ALL INVOICES, BILLS OF LADING, DELIVERY TICKETS, PACKAGES AND CORRESPONDENCE.

INVOICE IN DUPLICATE

MAIL ALL CORRESPONDENCE, CLAIM VOUCHERS, ETC., TO:

THREE RIVERS FILTRATION PLANT 210
ONE MAIN STREET
CITY COUNTY BLDG.
FORT WAYNE IN 46802

TOMCO EQUIPMENT CO 7293-01
3340 ROSEBUD RD
LOGANVILLE GA 30302

DELIVER TO: DEPARTMENT OR DIVISION

IF SHIPPING U.S. MAIL SEND TO ABOVE ADDRESS, IF BY TRUCK SEND TO GRISWOLD DRIVE
FORT WAYNE IN 46805

[ ] CIVIL CITY

[XX] CITY UTILITIES

APPROPRIATION AND FUND NUMBER 5-13-523-W10-14-444

CASH DISCOUNT TERMS % IF PAID WITHIN DAYS FROM DELIVERY AND ACCEPTANCE OF GOODS OR PERFORMANCE OF SERVICES. (DEDUCTION FOR DISCOUNT SHOWN BELOW)

U044020 CM N/A

QUANTITY ORDERED	UNIT	MATERIALS. SUPPLIES OR SERVICES	UNIT PRICE	AMOUNT
		TAX EXEMPT (UNLESS OTHERWISE INDICATED)		
1	PMT	*001 CAPITAL IMPROVEMENT ITEM NO. 4	35100.00	35100.00
		TOMCO LIQUID CARBON DIOXIDE SYSTEM FOR PLANT #1, PER TOMCO REVISED PROPOSAL #1369-A		
		DATED FEBRUARY 14TH, 1985		
		SUBJECT TO COUNCILMANIC APPROVAL ORDINANCE NO._____ DATE_____		
		FOR INFORMATION: PURCHASING 219-427-1101	TOTAL	35100.00

COMPLIANCE WITH THE DELIVERY DATE REQUESTED WILL AVOID "FOLLOW UP" CORRESPONDENCE.

UNLESS OTHERWISE INDICATED THE PRICES SHOWN INCLUDE ALL CHARGES FOR DELIVERY, PACKING, ETC., NECESSARY TO COMPLETE DELIVERY TO DESTINATION SPECIFIED.

NOTE
READ INSTRUCTIONS ON THE BACK OF THIS **ORDER**

THE CONTRACTOR OR VENDOR, BY ACCEPTING THIS ORDER, AGREES TO THE GENERAL CONDITIONS AND TERMS OF AGREEMENT ON THE BACK OF THIS ORDER.

UNLESS OTHERWISE INDICATED, THE PRICES SHOWN DO NOT INCLUDE TAXES OF ANY KIND.

EXEMPTION BLANKS WILL BE FURNISHED WHEN NECESSARY.

INDIANA SALES TAX EXEMPTION CERTIFICATE NUMBER 034508-03

IF THIS ORDER DOES NOT AGREE WITH YOUR QUOTATION KINDLY RETURN IT WITH AN EXPLANATION.

I HEREBY CERTIFY THAT THE COST OF THE ABOVE PURCHASE IS FULLY COVERED BY UNENCUMBERED BALANCES IN THE ABOVE FUNDS AND THAT THE EXPENDITURE THEREFORE HAS BEEN DULY AUTHORIZED AND APPROPRIATED.

CITY CONTROLLER

PER

I HEREBY CERTIFY UPON MY OWN PERSONAL KNOWLEDGE THAT THIS ORDER IS AUTHORIZED BY A PROPERLY EXECUTED AND APPROVED REQUISITION ON FILE IN THIS OFFICE.

DIRECTOR OF PURCHASES

PER

BILL NO. S-85-03-38

REPORT OF THE COMMITTEE ON FINANCE

WE, YOUR COMMITTEE ON FINANCE TO WHOM WAS REFERRED AN (ORDINANCE) ~~(RESOLUTION)~~ approving City Utilities Purchase Order #A-44020 by the City of Fort Wayne by and through its Department of Purchasing and Tomco Equipment Co. for the Filtration Plant

HAVE HAD SAID (ORDINANCE) ~~(RESOLUTION)~~ UNDER CONSIDERATION AND BEG LEAVE TO REPORT BACK TO THE COMMON COUNCIL THAT SAID (ORDINANCE) ~~(RESOLUTION)~~ DO PASS DO NOT PASS WITHDRAWN

YES		NO
Ben A. Eisbart	BEN A. EISBART CHAIRMAN	
	JANET G. BRADBURY VICE CHAIRWOMAN	
Samuel J. Talarico	SAMUEL J. TALARICO	
Thomas C. Henry	THOMAS C. HENRY	
James S. Stier	JAMES S. STIER	

CONCURRED IN 4-9-85

SANDRA E. KENNEDY
CITY CLERK

6954

1-85-03-38

DIGEST SHEET

TITLE OF ORDINANCE: SPECIAL

DEPARTMENT REQUESTING ORDINANCE: PURCHASING

SYNOPSIS OF ORDINANCE: An ordinance approving the awarding of a bid with respect to the purchase of a Liquid Carbon Dioxide System for the Filtration Plant.

EFFECT OF PASSAGE: This will enable Plant #1 of the Three Rivers Filtration Plant to provide liquid carbon dioxide for burners as is currently being done in Plants #2 and #3. This will provide a financial savings over the current system of using natural gas alone.

EFFECT OF NON-PASSAGE: Plant #1 will continue to use natural gas alone and the cost savings of liquid carbon dioxide will not be realized.

MONEY INVOLVED (Direct costs, Expenditures, Savings):
Tomco Equipment Co. - $35,100.00.

ASSIGNED TO COMMITTEE (President):